

### ABSTRACT

1        A temperature sensing device measures the temperature of a fluid at selected locations  
2 along an IV fluid line. The device is secured to a selected portion of the IV line and includes a  
3 temperature sensor for measuring fluid flowing within that line. The device is coupled to a  
4 temperature display device to display the measured temperature. The temperature sensing device  
5 may include: a housing with a lower cover to engage the line and a temperature sensor; a holder  
6 movable along the line and including a temperature sensor; a housing with a lower member  
7 including a tip to pierce and measure temperature of fluid within the line; a resilient member with  
8 a spiral configuration and a tip to pierce and measure temperature of fluid within the line; a 'T'-  
9 type fitting including a temperature sensor; or a 'Y'-type fitting including a temperature sensor  
10 in the form of a needle.